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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/537,235	01/10/2006	Jan-Henrik Ardenkjaer-Larsen	PN02100	6355
36335 GE HEALTHC	7590 09/17/200 ARE, INC.	EXAMINER		
IP DEPARTME	ENT	SHRIVASTAV, BRIJ B		
101 CARNEGIE CENTER PRINCETON, NJ 08540-6231			ART UNIT	PAPER NUMBER
			2831	
			MAIL DATE	DELIVERY MODE
			09/17/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Comments	10/537,235	ARDENKJAER-LARSEN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Brij B. Shrivastav	2831				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 66(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	Lely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 31 Ma	av 2005					
· <u> </u>	· · · · · · · · · · · · · · · · · · ·					
	/ <del></del>					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	•					
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	✓ Claim(s) <u>1-15</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
·	5) Claim(s) is/are allowed.					
6) Claim(s) <u>1-15</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) acce	epted or b) $\square$ objected to by the E	Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 4/4/07.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te				

Application/Control Number: 10/537,235

Art Unit: 2831

## **DETAILED ACTION**

Page 2

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

- 2. Claims 1-15 are rejected under 35 U.S.C. 102 (e) as being anticipated by Pines et al (US 2003/0165431A1).
- 3. As regards to claim 1, Pines et al teach an NMR based method including steps to generate NMR spectrum of a mixture comprising at least (i) hyperpolarized ligand, a target and another ligand, or (ii) a hyperpolarized target and a lignad, and comparing said NMR spectrum with a reference spectrum of at least one hyperpolarized ligand or the hyperpolarized target (figures 1-10, 12-16' 18, 22, 28; page 3-5, 9; see abstract)
- 4. As regards to claim 14, Pines et al teach steps to perform an NMR-assisted drug discovery method using one or more hyperpolarized ligands and/or hyperpolarized targets (figure 1-13, paragraphs (0068 and 0069).
- 5. As regards to claim 15, Pines et al teach a method of performing a ligand competition assay including a step of using one or more isotopically enriched hyperpolarized ligands (see abstract; figures 1-10, 12-16' 18, 22, 28; page 3-5, 9).

Application/Control Number: 10/537,235

Art Unit: 2831

6. As regards to claims 2-13, Pines further teach using a mixture of either hyperpolarized ligands and a target or a hyperpolarized target and a ligand to generate and compare NMR spectra, where target or ligand may be a protein or peptide or a carbohydrate an organic molecule or isotopically enriched molecule; where isotopically enriched hyperpolarized ligand and target are used (page 1-4, 7, 13, 14, 17 and 18).

Page 3

- 7. Applicant is advised that US patent # 6418202 and application US 2003/0077628 can also be used to reject above claims either in anticipation or in combination.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brij B. Shrivastav whose telephone number is 571-272-2250. The examiner can normally be reached on 7 AM to 4 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego Gutierrez can be reached on 571-272-2245. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/537,235 Page 4

Art Unit: 2831

September 12, 2008 /Brij B Shrivastav/

/Brij B Shrivastav/ Primary Examiner, Art Unit 2831